CHARGE NUMBER: 1503
PROJECT TITLE: Modified Smoking Materials
PROJECT LEADER: J. G. Nepomuceno
PERIOD COVERED: September, 1985
DATE OF REPORT: October 10, 1985

## I. Tobacco Extrusion

Objective:

To develop a process for extrusion of foamed tobacco articles.

Status:

Panel testing of initial prototypes made with a binder system of 1% Klucel, 4% hydroxypropylguar, and 5% starch on the continuous extrusion line found these models to be the best to date. Flavor work to enhance these models is planned and prototypes with additives to reduce mass burn rate and hot collapse are also under evaluation.

Plans:

Continue efforts to improve subjective response of current model through flavor and blend modifications. Evaluate effects of various additives on mass burn rate and cigarette firmness.

## II. Foamed Filler Binder

Objective:

To develop a process for applying a subjectively acceptable foamed binder to the tobacco filler in order to improve coal strength, reduce loose ends and allow for weight reduction.

Status:

Several cigarette models using foamed binder technology were produced with 50, 100 and 200 mg weight reductions. Firmness and loose ends values equivalent to those of the control at standard weight were maintained with as much as 40-50 mg weight reduction.

Plans:

Further changes to the cigarette construction (filter and paper) are planned in an effort to adjust tar deliveries.

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Source: https://www.industrydocuments.ucsf.edu/docs/gfgm0000

## III. Dry Formed Rods

Objective:

To develop a process for producing low density cigarette rods.

Status:

Methods of applying binders to the tobacco at the wide tape section of the Hauni Baby were investigated. A long nozzle with multiple orifices for foam application was fabricated and is currently under evaluation. A small ultrasonic nozzle for atomizing the binder solution has been ordered for evaluation.

Plans:

Continue evaluation of various methods for applying a more complete coverage of binders to the tobacco at the maker.

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